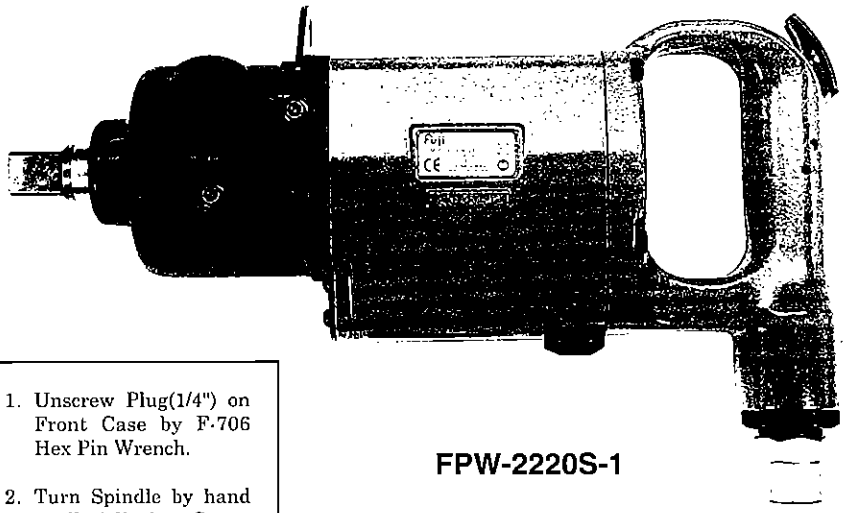
Fuji 0128

USER MANUAL

PULSE WRENCH

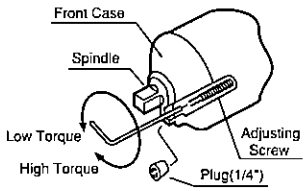
MODELS : FPW-2220S-1



FPW-2220S-1

■ Torque is preset at the max. torque of Recommended Torque Range when the tool is shipped.
Adjust torque before use.

■ How to Adjust Torque



1. Unscrew Plug(1/4") on Front Case by F-706 Hex Pin Wrench.
2. Turn Spindle by hand until Adjuting Screw can be seen through Plug hole.
3. Turn Adjuting Screw clockwise by F-703 Hex Pin Wrench to increase torque and counter clockwise to decrease torque.
4. Screw Plug back to Front Case by F-706 Hex Pin Wrench after setting torque.
5. Always set Plug to Front Case when using wrench.

SPECIFICATIONS

Model	Bolt Size	Recommended Torque Range			Rotational Frequency	Distance from Center to Side		Square Drive Size		Overall Length		Mass		Air Consumption (At Load)	
	mm	N·m	kgf·m	ft·lb	min^{-1}	mm	in	mm	in	mm	in	kg	lb	m^3/min	ft^3/min
FPW-2220S-1	M16~M20	200~400	20.4~40.8	147.5~295.0	2,500	45	1 25/32	19	3/4	350	10 13/16	7.0	15.4	1.3	45.9

Air Hose Size : 12.7mm (1/2")
Air Inlet Thread Size : PT or NPT 1/2"

The performance figures are at 0.63MPa (6.3bar).

⚠ Refer to "The Instructions and Warning for Safety Use" enclosed in each tool box.

FUJI AIR TOOLS CO., LTD.

2-1-14 Kamiji, Higashinariku, Osaka 537-0003, Japan

Tel : (06) 6972-2335
Fax : (06) 6972-2250

Specifications are subjects to change without notice.

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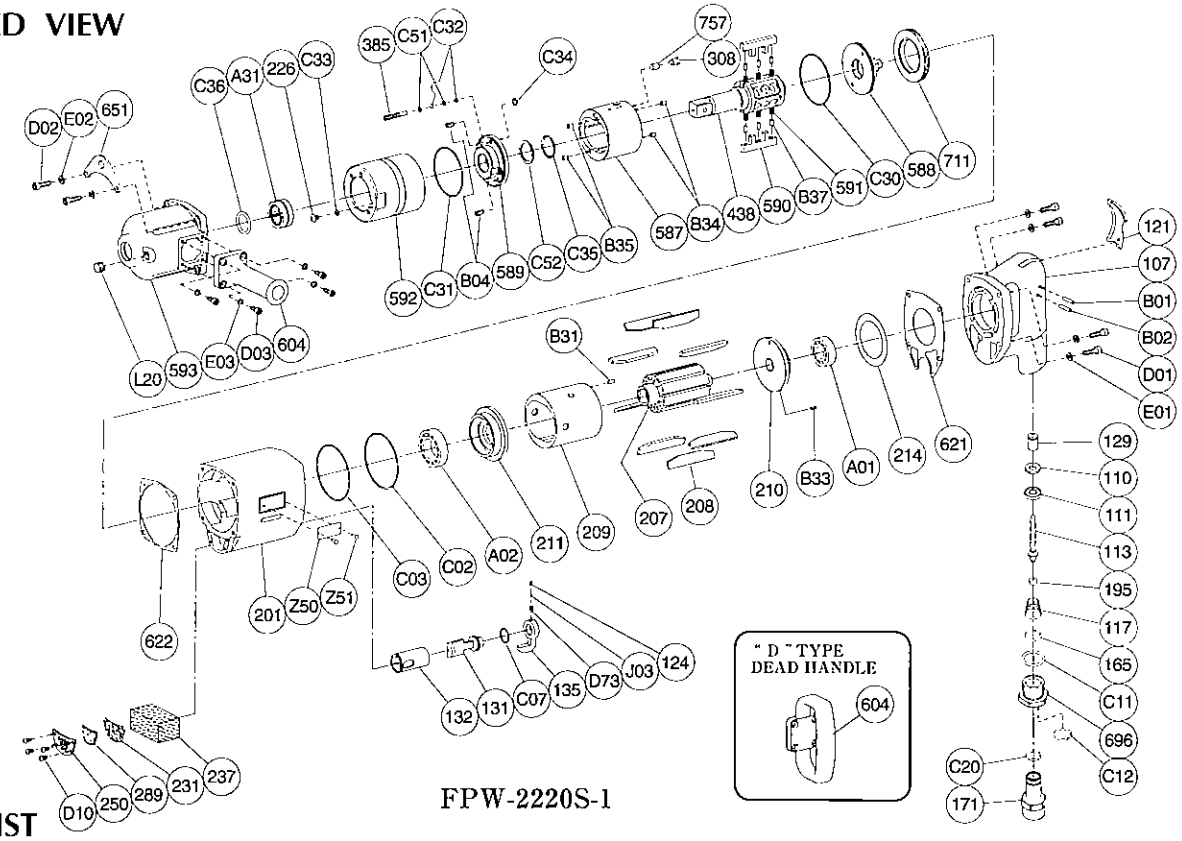
PARTS LIST MODEL: FPW-2220S-1

EXPLODED VIEW



FPW-2220S-1

PARTS LIST

Index No.	Parts No.	Parts Name	Qt.
Ass'y No.	W-346002-00	Locking Lever Ass'y〈PT〉	
Ass'y No.	W-346002-01	Locking Lever Ass'y〈NPT〉	
107	W-346107-00	Handle	1
110	A-078110-01	Throttle Valve	1
111	A-078111-01	Throttle Valve Washer	1
113	W-346113-00	Throttle Valve Rod	1
117	W-154117-00	Throttle Valve Spring	1
121	W-014121-01	Throttle Valve Lever	1
129	W-266129-00	Throttle Valve Rod Bushing	1
195	W-080195-00	Sub Throttle Valve	1
B01	NR-422	Needle Roller	1
B02	NR-425	Needle Roller	1
C11	O-G25	" O " Ring	1
Ass'y No.	W-154020-00	Inlet Bushing Ass'y〈PT〉	
Ass'y No.	W-154020-01	Inlet Bushing Ass'y〈NPT〉	
165	W-154165-00	Stop Ring	1
171	W-154171-02	Inlet Bushing 〈PT〉	1
171	W-154171-03	Inlet Bushing 〈NPT〉	1
696	W-154696-01	Joint Nut	1
C12	O-P20	" O " Ring	1
C20	O-16	" O " Ring	1
Ass'y No.	W-346006-01	Housing Ass'y	
201	W-346201-00	Housing	1
(132)	W-346132-00	Reverse Valve Bushing	1
231	W-346231-00	Silencer Plate	1
237	W-346237-00	Muffler Pad	1
250	W-346250-00	Exhaust Cover	1
289	W-346289-00	Muffler Plate	1
C02	O-S75F	" O " Ring	1
C03	O-S75F	" O " Ring	1
D10	CS-48B	Cap Screw	4

Index No.	Parts No.	Parts Name	Qt.
Ass'y No.	W-346021-01	Oil Cylinder Ass'y	
226	W-346226-00	Oil Plug	1
308	W-346308-00	Spacer	1
385	W-346385-00	Adjusting Screw	1
438	W-346438-00	Spindle	1
587	W-346587-00	Oil Cylinder	1
588	W-346588-00	Oil Cylinder Upper Plate	1
589	W-346589-00	Oil Cylinder Lower Plate	1
590	W-346590-00	Spindle Blade	2
(B37)	SP-48	Spring Pin	6
591	W-346591-00	Blade Spring	3
592	W-346592-00	Cylinder Case	1
711	W-346711-00	Cylinder Cover	1
757	W-346757-00	Needle	1
B04	GP-510GCII	Grooved Pin	2
B34	NR-58	Needle Roller	2
B35	NR-58	Needle Roller	2
C30	O-S67(H)	" O " Ring	1
C31	O-S65(H)	" O " Ring	1
C32	O-S4(H)	" O " Ring	2
C33	O-S5(H)	" O " Ring	1
C34	O-S8(H)	" O " Ring	1
C35	O-X215(H)	" X " Ring	1
C51	BR-S4FT2	Back Up Ring	2
C52	BR-215F	Back Up Ring	1
Ass'y No.	W-346033-00	Front Case Ass'y	
593	W-346593-00	Front Case	1
A31	NB-RNA4904R	Needle Bearing	1
C36	O-P25	" O " Ring	1
L20	PL-1/4	Plug	1

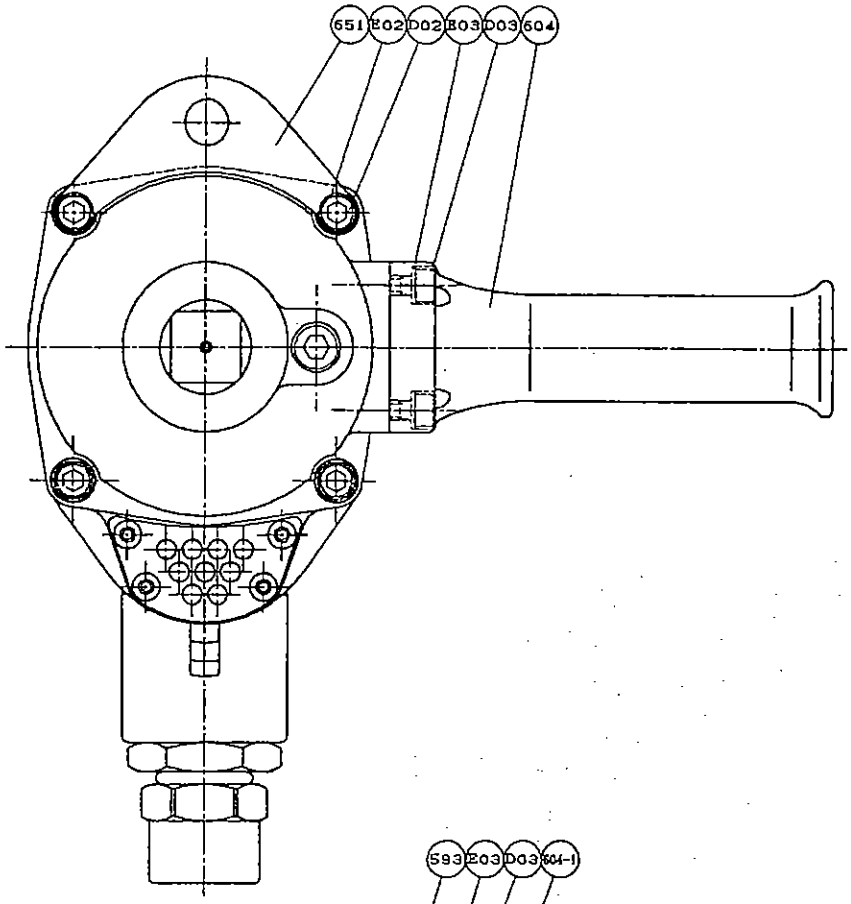
Index No.	Parts No.	Parts Name	Qt.
124	W-346124-00	Knock Spring	1
131	W-346131-00	Reverse Valve	1
135	W-346135-00	Reverse Valve Lever	1
207	W-346207-00	Rotor	1
208	W-346208-00	Rotor Blade	9
209	W-346209-00	Cylinder	1
(B31)	SP-410	Spring Pin	1
210	W-346210-00	Cylinder Upper Plate	1
(B33)	SP-38	Spring Pin	1
211	W-346211-00	Cylinder Lower Plate	1
214	W-346214-00	Adjusting Washer	1
604	W-346604-00	Dead Handle or	1
	W-346604-01	Dead Handle 〈D〉	1
621	W-346621-00	Packing 〈A〉	1
622	W-346622-00	Packing 〈B〉	1
651	W-346651-00	Hanger	1
A01	BB-6203	Ball Bearing	1
A02	BB-60/28	Ball Bearing	1
C07	O-S16	" O " Ring	1
D01	CS-620	Cap Screw	4
D02	CS-620	Cap Screw	4
D03	CS-514	Cap Screw	4
D73	SS-58D	Set Screw	1
E01	PW-6K	Plain Washer	4
E02	PW-6K	Plain Washer	4
E03	PW-5K	Plain Washer	4
J03	B-3	Ball	1
Z50	NP-2069	Name Plate	1
Z51	NPN-0X3.2	Screw Rivet	2

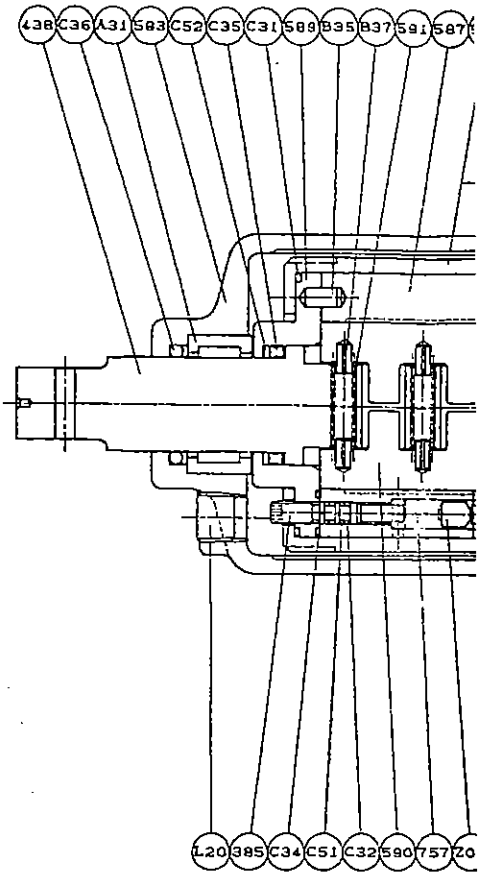
☐ Ass'y No. denotes No. of the assembled parts comprising of more than 1 pc. of parts. The related parts are shown in the thick frame.

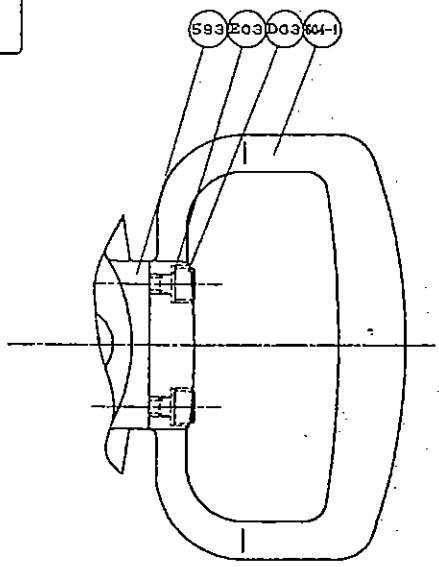
☐ Index Nos. 201, 209, 210 and 590 are supplied together with parts shown in ( ).

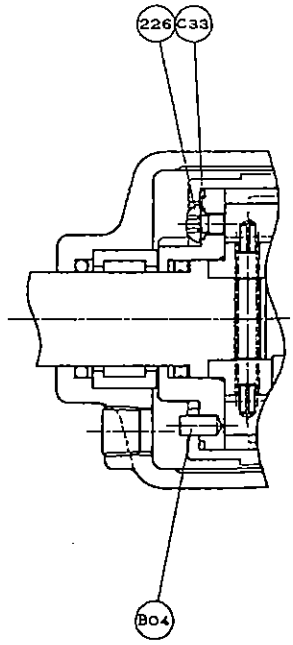
☐ Specify parts number and quantity in ordering.

■ Standard Accessories : F-703 ····· 2mm Hex. Pin Wrench 1.
F-705 ····· 5mm Hex. Pin Wrench 1.
F-706 ····· 6mm Hex. Pin Wrench 1.









D型 支工ハンドル

604-1	W-346604-01	DEAD HANDLE	1

正図
02.4.15
不二空機(株)
技術部

SPECIFICATION

TYPE	SQUARE DRIVE SIZE	CAPACITY (SCREW SIZE)	AIR PRESSURE 0.63MPa			OVERAL LENGT
			ROTATIONAL FREQUENCY	AIR CONSUMPTION (UNDER LOAD) (NORMAL CONDITION)	TORQUE	
	mm	mm	min-1	m3/min	N·m	mm
FPW-2220S-1	19.0	M18~M20	2500	1.3	300~500	350

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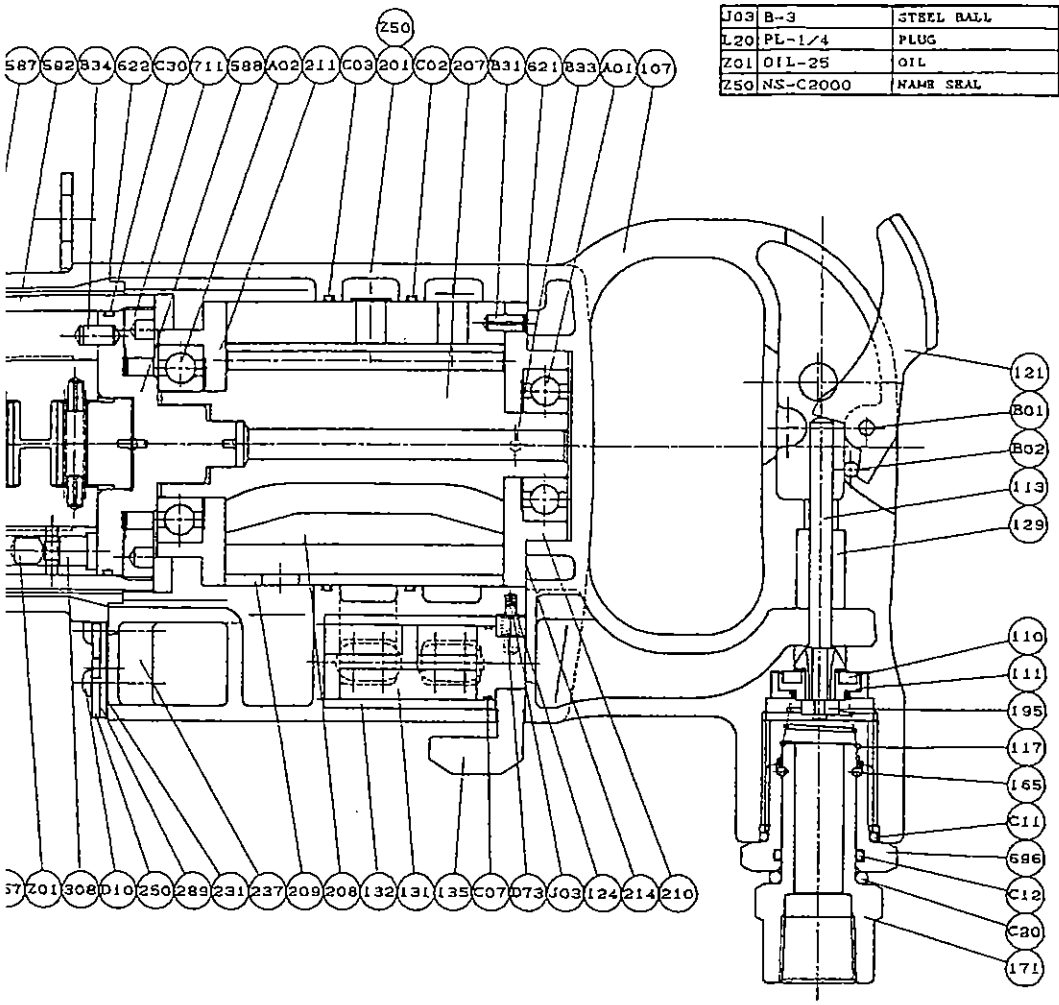
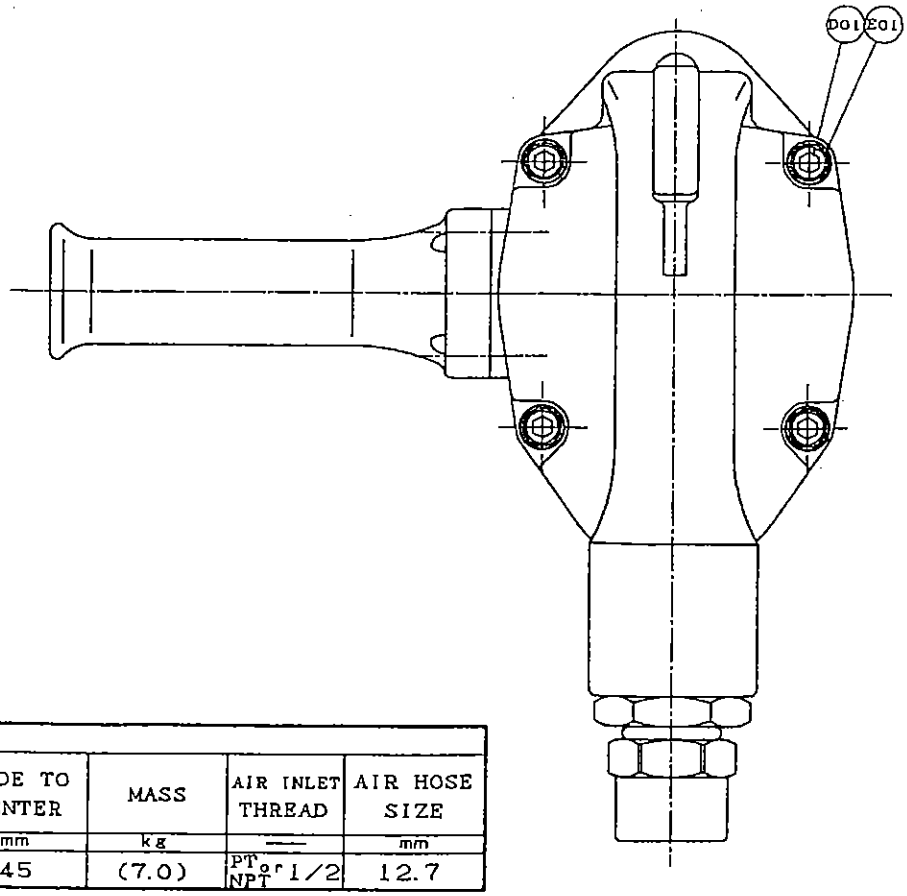
FPW-2220S-1



J03	B-3	STEEL BALL	1
L20	PL-1/4	PLUG	1
Z01	OIL-25	OIL	1
Z50	NS-C2000	NAME SEAL	1

DRAW. NO.	PARTS NO.	NAME OF PART	QTY
107	W-346107-00	HANDLE	1
110	A-078110-01	THROTTLE VALVE	1
111	A-078111-01	THROTTLE VALVE LEVER	1
113	W-346113-00	THROTTLE VALVE ROD	1
117	W-154117-00	THROTTLE VALVE SPRING	1
121	W-014121-01	THROTTLE VALVE LEVER	1
124	W-346124-00	KNOCK SPRING	1
129	W-266129-00	T.V. ROD BUSHING	1
131	W-346131-00	REVERSE VALVE	1
132	W-346132-00	REVERSE VALVE BEARING	1
135	W-346135-00	REVERSE VALVE LEVER	1
165	W-154165-00	STOP RING	1
171	W-154171-02	INLET JOINT(PT)	1
	W-154171-03	INLET JOINT(NPT)	1
195	W-080195-00	SUB THROTTLE VALVE	1
201	W-346201-00	HOUSING	1
207	W-346207-00	ROTOR	1
208	W-346208-00	ROTOR BLADE	9
209	W-346209-00	CYLINDER	1
210	W-346210-00	CYLINDER UPPER PLATE	1
211	W-346211-00	CYLINDER LOWER PLATE	1
214	W-346214-00	ADJUSTING SCREW(WITH)	1
226	W-346226-00	OIL PLUG	1
231	W-346231-00	SILENCER PLATE	1
237	W-346237-00	MUFFLER PAD	2
250	W-346250-00	EXHAUST COVER	1
289	W-346289-00	MUFFLER PLATE	1
308	W-346308-00	SPACER	1
385	W-346385-00	ADJUSTING SCREW	1
438	W-346438-00	SPINDLE	1
587	W-346587-00	OIL CYLINDER	1
588	W-346588-00	OIL CYLINDER U. PLATE	1
589	W-346589-00	OIL CYLINDER L. PLATE	1
590	W-346590-00	SPINDLE BLADE	2
591	W-346591-00	BLADE SPRING	3
592	W-346592-00	CYLINDER CASE	1
593	W-346593-00	FRONT CASE	1
604	W-346604-00	GRAD HANDLE	1
621	W-346621-00	PACKING (A)	1
622	W-346622-00	PACKING (B)	1
651	W-346651-00	HANGER (HORIZONTAL)	1
686	W-154696-01	JOINT NUT	1
711	W-346711-00	CYLINDER COVER	1
757	W-346757-00	NEEDLE	1
A01	BB-6203	BALL BEARING	1
A02	BB-60/28	BALL BEARING	1
A31	NB-BNA4904R	NEEDLE BEARING	1
B01	NR-422	NEEDLE ROLLER	1
B02	NR-425	NEEDLE ROLLER	1
B04	GP-510GLC	GROOVED PIN	1
B31	SP-410	SPRING PIN	1
B33	SP-38	SPRING PIN	1
B34	NR-58	NEEDLE ROLLER	2
B35	NR-58	NEEDLE ROLLER	2
B37	SP-48	SPRING PIN	6
C02	O-S75	"O" RING	1
C03	O-S75	"O" RING	1
C07	O-S18	"O" RING	1
C11	O-G25	"O" RING	1
C12	O-P20	"O" RING	1
C20	O-16	"O" RING	1
C30	O-S67(H)	"O" RING(HNBR80)	1
C31	O-S65(H)	"O" RING(HNBR80)	1
C32	O-S4(H)	"O" RING(HNBR80)	2
C33	O-S6(H)	"O" RING(HNBR80)	1
C34	O-S8(H)	"O" RING(HNBR80)	1
C35	O-X215(H)	"O" RING(HNBR80)	1
C36	O-P25	"O" RING	1
C51	BR-S4FT2	BACK-UP RING	2
C52	BR-215	BACK-UP RING	1
D01	CS-620	CAP SCREW	4
D02	CS-620	CAP SCREW	4
D03	CS-514	CAP SCREW	4
D10	CS-488	BUTTON HEAD CAP SCREW	4
073	SS-58D	SET SCREW (DOG POINT)	1
E01	PW-6K	WASHER (SMALL TYPE)	4
R02	PW-6K	WASHER (SMALL TYPE)	4
R03	PW-5K	WASHER (SMALL TYPE)	4



N S				
RALL NGTH	SIDE TO CENTER	MASS	AIR INLET THREAD	AIR HOSE SIZE
nm	mm	kg	—	mm
50	45	(7.0)	PT or NPT 1/2	12.7

PNEU PULSE WRENCH			
TYPE	FPW-2220S-1		
DRAWING NO.	W-346 A50-00	APPROVED BY	SUEYOSHI
SCALE	NTS	CHECKED BY	OHTA
DATE	2001.05	DRAWN BY	NAGATO
FUJI AIR TOOLS CO., LTD.			